

**Homework: Writing & Simplifying Expressions**

Write the following expressions in algebraic form.

1. 9 more than  $c$  \_\_\_\_\_2.  $b$  minus 4 \_\_\_\_\_3. the quotient of  $z$  and 9 \_\_\_\_\_4. the total of  $n$  and 40 \_\_\_\_\_5. the (sum of 8 and  $m$ )  
+ \_\_\_\_\_

$(8 + m)$

6.  $x$  divided by 5 \_\_\_\_\_7. the difference of  $h$  and 7 \_\_\_\_\_8. 23 less than  $p$  \_\_\_\_\_

$p - 23$

9. the product of  $g$  and 2 \_\_\_\_\_10. 77 plus twice  $v$  \_\_\_\_\_11. two times  $r$  increased by 12 \_\_\_\_\_12. 3 times  $j$  decreased by 12 \_\_\_\_\_

$3j - 12$

13. The total cost, \$4.90, is the number of cans times \$.70.

14. The perimeter of a square is 40 cm and equals 4 times the length of a side.

m

$40 = 4l$

15. The total length of rope, 720 ft., used to put up tents is 60 times the number of tents.

Evaluate the expression for the given value of the variable. \* Plug it in \*16.  $y^4 \div 8$  when  $y = 4$ 17.  $3r^2 - 17$  when  $r = -6$ 

$3(-6)^2 - 17$

$3(36) - 17$

$108 - 17 = 91$

18.  $27 - \frac{24}{b}$  when  $b = 8$ 19.  $\frac{15}{10} \cdot y - 10$  when  $y = 2$